

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 08:46:44 ON 08 AUG 2006

=> fil .bec

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS,  
ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 08:47:05 ON 08 AUG 2006  
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s oligosaccharide# or lacto n neotetraose or LNnT or polylactosamine

FILE 'MEDLINE'

26337 OLIGOSACCHARIDE#

850 LACTO

866662 N

119 NEOTETRAOSE

115 LACTO N NEOTETRAOSE

(LACTO (W) N (W) NEOTETRAOSE)

18 LNNT

191 POLYLACTOSAMINE

L1 26452 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMINE

FILE 'SCISEARCH'

29240 OLIGOSACCHARIDE#

730 LACTO

1288845 N

124 NEOTETRAOSE

117 LACTO N NEOTETRAOSE

(LACTO (W) N (W) NEOTETRAOSE)

19 LNNT

200 POLYLACTOSAMINE

L2 29389 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMINE

FILE 'LIFESCI'

6732 OLIGOSACCHARIDE#

209 "LACTO"

235941 "N"

51 "NEOTETRAOSE"

51 LACTO N NEOTETRAOSE

("LACTO" (W) "N" (W) "NEOTETRAOSE")

7 LNNT

42 POLYLACTOSAMINE

L3 6785 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMINE

FILE 'BIOTECHDS'

3500 OLIGOSACCHARIDE#

67 LACTO

49243 N

14 NEOTETRAOSE

13 LACTO N NEOTETRAOSE

(LACTO (W) N (W) NEOTETRAOSE)

5 LNNT

6 POLYLACTOSAMINE

L4 3509 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMINE

FILE 'BIOSIS'

24610 OLIGOSACCHARIDE#  
 3001 LACTO  
 930506 N  
 115 NEOTETRAOSE  
 112 LACTO N NEOTETRAOSE  
 (LACTO (W) N (W) NEOTETRAOSE)  
 18 LNNT  
 198 POLYLACTOSAMINE  
 L5 24798 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI  
 NE

FILE 'EMBASE'

19148 OLIGOSACCHARIDE#  
 760 "LACTO"  
 765103 "N"  
 114 "NEOTETRAOSE"  
 107 LACTO N NEOTETRAOSE  
 ("LACTO" (W) "N" (W) "NEOTETRAOSE")  
 16 LNNT  
 166 POLYLACTOSAMINE  
 L6 19291 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI  
 NE

FILE 'HCAPLUS'

52723 OLIGOSACCHARIDE#  
 1414 LACTO  
 2938495 N  
 200 NEOTETRAOSE  
 194 LACTO N NEOTETRAOSE  
 (LACTO (W) N (W) NEOTETRAOSE)  
 36 LNNT  
 219 POLYLACTOSAMINE  
 L7 52898 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI  
 NE

FILE 'NTIS'

160 OLIGOSACCHARIDE#  
 5 LACTO  
 70204 N  
 1 NEOTETRAOSE  
 1 LACTO N NEOTETRAOSE  
 (LACTO (W) N (W) NEOTETRAOSE)  
 0 LNNT  
 1 POLYLACTOSAMINE  
 L8 162 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI  
 NE

FILE 'ESBIOBASE'

8732 OLIGOSACCHARIDE#  
 263 LACTO  
 347821 N  
 74 NEOTETRAOSE  
 71 LACTO N NEOTETRAOSE  
 (LACTO (W) N (W) NEOTETRAOSE)  
 13 LNNT  
 103 POLYLACTOSAMINE  
 L9 8833 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMI  
 NE

FILE 'BIOTECHNO'

9517 OLIGOSACCHARIDE#  
 275 LACTO  
 184936 N  
 53 NEOTETRAOSE  
 52 LACTO N NEOTETRAOSE

(LACTO (W) N (W) NEOTETRAOSE)  
 8 LNNT  
 113 POLYLACTOSAMINE  
 L10 9603 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMINE

FILE 'WPIDS'  
 6809 OLIGOSACCHARIDE#  
 440 LACTO  
 715293 N  
 16 NEOTETRAOSE  
 14 LACTO N NEOTETRAOSE  
 (LACTO (W) N (W) NEOTETRAOSE)  
 12 LNNT  
 16 POLYLACTOSAMINE  
 L11 6821 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMINE

TOTAL FOR ALL FILES  
 L12 188541 OLIGOSACCHARIDE# OR LACTO N NEOTETRAOSE OR LNNT OR POLYLACTOSAMINE

=> s l12(5a) (synthes? or produc?)  
 FILE 'MEDLINE'  
 514537 SYNTHES?  
 1325695 PRODUC?  
 L13 1985 L1 (5A) (SYNTHES? OR PRODUC?)

FILE 'SCISEARCH'  
 926556 SYNTHES?  
 1876834 PRODUC?  
 L14 3485 L2 (5A) (SYNTHES? OR PRODUC?)

FILE 'LIFESCI'  
 144358 SYNTHES?  
 527152 PRODUC?  
 L15 843 L3 (5A) (SYNTHES? OR PRODUC?)

FILE 'BIOTECHDS'  
 34586 SYNTHES?  
 227725 PRODUC?  
 L16 1257 L4 (5A) (SYNTHES? OR PRODUC?)

FILE 'BIOSIS'  
 656748 SYNTHES?  
 1742148 PRODUC?  
 L17 3037 L5 (5A) (SYNTHES? OR PRODUC?)

FILE 'EMBASE'  
 627192 SYNTHES?  
 1265241 PRODUC?  
 L18 1893 L6 (5A) (SYNTHES? OR PRODUC?)

FILE 'HCAPLUS'  
 1549739 SYNTHES?  
 4302218 PRODUC?  
 952648 PRODN  
 4762572 PRODUC?  
 (PRODUC? OR PRODN)  
 L19 7556 L7 (5A) (SYNTHES? OR PRODUC?)

FILE 'NTIS'  
 42832 SYNTHES?  
 373006 PRODUC?  
 L20 21 L8 (5A) (SYNTHES? OR PRODUC?)

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FILE 'ESBIOBASE'
    204472 SYNTHES?
    608490 PRODUC?
L21      1150 L9 (5A) (SYNTHES? OR PRODUC?)

FILE 'BIOTECHNO'
    170699 SYNTHES?
    394590 PRODUC?
L22      1016 L10 (5A) (SYNTHES? OR PRODUC?)

FILE 'WPIDS'
    134619 SYNTHES?
    2391660 PRODUC?
L23      871 L11 (5A) (SYNTHES? OR PRODUC?)

TOTAL FOR ALL FILES
L24      23114 L12 (5A) (SYNTHES? OR PRODUC?)

=> s l24(5a) (coli or bacter? or microb? or microorganism?)
FILE 'MEDLINE'
    253748 COLI
    760136 BACTER?
    540996 MICROB?
    35086 MICROORGANISM?
L25      53 L13 (5A) (COLI OR BACTER? OR MICROB? OR MICROORGANISM?)

FILE 'SCISEARCH'
    234419 COLI
    383042 BACTER?
    143549 MICROB?
    46408 MICROORGANISM?
L26      78 L14 (5A) (COLI OR BACTER? OR MICROB? OR MICROORGANISM?)

FILE 'LIFESCI'
    100613 COLI
    200054 BACTER?
    56431 MICROB?
    40766 MICROORGANISM?
L27      35 L15 (5A) (COLI OR BACTER? OR MICROB? OR MICROORGANISM?)

FILE 'BIOTECHDS'
    46858 COLI
    126086 BACTER?
    21353 MICROB?
    27147 MICROORGANISM?
L28      78 L16 (5A) (COLI OR BACTER? OR MICROB? OR MICROORGANISM?)

FILE 'BIOSIS'
    280838 COLI
    1360384 BACTER?
    464454 MICROB?
    2730944 MICROORGANISM?
L29      79 L17 (5A) (COLI OR BACTER? OR MICROB? OR MICROORGANISM?)

FILE 'EMBASE'
    181004 COLI
    498787 BACTER?
    102474 MICROB?
    128650 MICROORGANISM?
L30      49 L18 (5A) (COLI OR BACTER? OR MICROB? OR MICROORGANISM?)

FILE 'HCAPLUS'
    272474 COLI
    600026 BACTER?

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433840 MICROB?  
157282 MICROORGANISM?  
L31 211 L19(5A) (COLI OR BACTER? OR MICROB? OR MICROORGANISM?)

FILE 'NTIS'

2843 COLI  
18843 BACTER?  
12858 MICROB?  
9124 MICROORGANISM?  
L32 1 L20(5A) (COLI OR BACTER? OR MICROB? OR MICROORGANISM?)

FILE 'ESBIOBASE'

71929 COLI  
207488 BACTER?  
267445 MICROB?  
31230 MICROORGANISM?  
L33 47 L21(5A) (COLI OR BACTER? OR MICROB? OR MICROORGANISM?)

FILE 'BIOTECHNO'

94549 COLI  
191870 BACTER?  
38419 MICROB?  
18193 MICROORGANISM?  
L34 36 L22(5A) (COLI OR BACTER? OR MICROB? OR MICROORGANISM?)

FILE 'WPIDS'

19428 COLI  
112405 BACTER?  
50391 MICROB?  
50770 MICROORGANISM?  
L35 51 L23(5A) (COLI OR BACTER? OR MICROB? OR MICROORGANISM?)

TOTAL FOR ALL FILES

L36 718 L24(5A) (COLI OR BACTER? OR MICROB? OR MICROORGANISM?)

=>

=> s l36 not 2001-2006/py

FILE 'MEDLINE'

3247230 2001-2006/PY  
(20010000-20069999/PY)  
L37 36 L25 NOT 2001-2006/PY

FILE 'SCISEARCH'

6018888 2001-2006/PY  
(20010000-20069999/PY)  
L38 47 L26 NOT 2001-2006/PY

FILE 'LIFESCI'

592799 2001-2006/PY  
L39 25 L27 NOT 2001-2006/PY

FILE 'BIOTECHDS'

136509 2001-2006/PY  
L40 46 L28 NOT 2001-2006/PY

FILE 'BIOSIS'

2943345 2001-2006/PY  
L41 47 L29 NOT 2001-2006/PY

FILE 'EMBASE'

2805100 2001-2006/PY  
L42 35 L30 NOT 2001-2006/PY

FILE 'HCAPLUS'

6085153 2001-2006/PY

L43 117 L31 NOT 2001-2006/PY

FILE 'NTIS'

91351 2001-2006/PY

L44 1 L32 NOT 2001-2006/PY

FILE 'ESBIOBASE'

1701930 2001-2006/PY

L45 25 L33 NOT 2001-2006/PY

FILE 'BIOTECHNO'

368875 2001-2006/PY

L46 28 L34 NOT 2001-2006/PY

FILE 'WPIDS'

5198425 2001-2006/PY

L47 31 L35 NOT 2001-2006/PY

TOTAL FOR ALL FILES

L48 438 L36 NOT 2001-2006/PY

=> s lactose permease or lacY or lac(w)y

FILE 'MEDLINE'

15898 LACTOSE

3016 PERMEASE

593 LACTOSE PERMEASE

(LACTOSE (W) PERMEASE)

751 LACY

10767 LAC

150706 Y

29 LAC (W) Y

L49 842 LACTOSE PERMEASE OR LACY OR LAC (W) Y

FILE 'SCISEARCH'

13693 LACTOSE

3048 PERMEASE

669 LACTOSE PERMEASE

(LACTOSE (W) PERMEASE)

284 LACY

8071 LAC

165229 Y

8 LAC (W) Y

L50 885 LACTOSE PERMEASE OR LACY OR LAC (W) Y

FILE 'LIFESCI'

4285 "LACTOSE"

1600 "PERMEASE"

264 LACTOSE PERMEASE

("LACTOSE" (W) "PERMEASE")

137 LACY

3777 LAC

31842 Y

16 LAC (W) Y

L51 366 LACTOSE PERMEASE OR LACY OR LAC (W) Y

FILE 'BIOTECHDS'

3588 LACTOSE

225 PERMEASE

38 LACTOSE PERMEASE

(LACTOSE (W) PERMEASE)

30 LACY

1874 LAC

5582 Y

5 LAC (W) Y

L52 66 LACTOSE PERMEASE OR LACY OR LAC (W) Y

FILE 'BIOSIS'  
 18835 LACTOSE  
 3118 PERMEASE  
 488 LACTOSE PERMEASE  
 (LACTOSE (W) PERMEASE)  
 354 LACY  
 8691 LAC  
 101073 Y  
 62 LAC (W) Y  
 L53 793 LACTOSE PERMEASE OR LACY OR LAC (W) Y

FILE 'EMBASE'  
 13911 "LACTOSE"  
 2174 "PERMEASE"  
 450 LACTOSE PERMEASE  
 ("LACTOSE" (W) "PERMEASE")  
 280 LACY  
 5015 LAC  
 109212 Y  
 21 LAC (W) Y  
 L54 661 LACTOSE PERMEASE OR LACY OR LAC (W) Y

FILE 'HCAPLUS'  
 50995 LACTOSE  
 3393 PERMEASE  
 529 LACTOSE PERMEASE  
 (LACTOSE (W) PERMEASE)  
 460 LACY  
 10865 LAC  
 318688 Y  
 22 LAC (W) Y  
 L55 886 LACTOSE PERMEASE OR LACY OR LAC (W) Y

FILE 'NTIS'  
 215 LACTOSE  
 12 PERMEASE  
 1 LACTOSE PERMEASE  
 (LACTOSE (W) PERMEASE)  
 14 LACY  
 535 LAC  
 15085 Y  
 0 LAC (W) Y  
 L56 15 LACTOSE PERMEASE OR LACY OR LAC (W) Y

FILE 'ESBIOBASE'  
 3663 LACTOSE  
 1326 PERMEASE  
 229 LACTOSE PERMEASE  
 (LACTOSE (W) PERMEASE)  
 117 LACY  
 2120 LAC  
 38894 Y  
 2 LAC (W) Y  
 L57 307 LACTOSE PERMEASE OR LACY OR LAC (W) Y

FILE 'BIOTECHNO'  
 4333 LACTOSE  
 1423 PERMEASE  
 257 LACTOSE PERMEASE  
 (LACTOSE (W) PERMEASE)  
 105 LACY  
 2921 LAC  
 24405 Y  
 15 LAC (W) Y

L58 317 LACTOSE PERMEASE OR LACY OR LAC(W)Y

FILE 'WPIDS'

9730 LACTOSE  
88 PERMEASE  
4 LACTOSE PERMEASE  
(LACTOSE (W) PERMEASE)  
42 LACY  
831 LAC  
245219 Y  
2 LAC(W)Y

L59 47 LACTOSE PERMEASE OR LACY OR LAC(W)Y

TOTAL FOR ALL FILES

L60 5185 LACTOSE PERMEASE OR LACY OR LAC(W) Y

=> s l60(10a)(express? or overexpress? or recombinant?)

FILE 'MEDLINE'

1024157 EXPRESS?  
71925 OVEREXPRESS?  
270284 RECOMBINANT?

L61 42 L49(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)

FILE 'SCISEARCH'

1310373 EXPRESS?  
82326 OVEREXPRESS?  
159511 RECOMBINANT?

L62 37 L50(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)

FILE 'LIFESCI'

404839 EXPRESS?  
30361 OVEREXPRESS?  
71420 RECOMBINANT?

L63 33 L51(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)

FILE 'BIOTECHDS'

146294 EXPRESS?  
5842 OVEREXPRESS?  
100896 RECOMBINANT?

L64 20 L52(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)

FILE 'BIOSIS'

1211726 EXPRESS?  
78474 OVEREXPRESS?  
198990 RECOMBINANT?

L65 55 L53(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)

FILE 'EMBASE'

937627 EXPRESS?  
71073 OVEREXPRESS?  
176753 RECOMBINANT?

L66 34 L54(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)

FILE 'HCAPLUS'

1243069 EXPRESS?  
75149 OVEREXPRESS?  
192664 RECOMBINANT?

L67 67 L55(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)

FILE 'NTIS'

39615 EXPRESS?  
1077 OVEREXPRESS?  
1685 RECOMBINANT?

L68 0 L56(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)



FILE 'ESBIOBASE'  
589796 EXPRESS?  
55027 OVEREXPRESS?  
88619 RECOMBINANT?  
L69 27 L57(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)

FILE 'BIOTECHNO'  
452182 EXPRESS?  
37390 OVEREXPRESS?  
127206 RECOMBINANT?  
L70 31 L58(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)

FILE 'WPIDS'  
129342 EXPRESS?  
2960 OVEREXPRESS?  
42500 RECOMBINANT?  
L71 1 L59(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)

TOTAL FOR ALL FILES  
L72 347 L60(10A) (EXPRESS? OR OVEREXPRESS? OR RECOMBINANT?)

=> s l72 not 2001-2006/py  
FILE 'MEDLINE'  
3247230 2001-2006/PY  
(20010000-20069999/PY)  
L73 31 L61 NOT 2001-2006/PY

FILE 'SCISEARCH'  
6018888 2001-2006/PY  
(20010000-20069999/PY)  
L74 23 L62 NOT 2001-2006/PY

FILE 'LIFESCI'  
592799 2001-2006/PY  
L75 24 L63 NOT 2001-2006/PY

FILE 'BIOTECHDS'  
136509 2001-2006/PY  
L76 14 L64 NOT 2001-2006/PY

FILE 'BIOSIS'  
2943345 2001-2006/PY  
L77 45 L65 NOT 2001-2006/PY

FILE 'EMBASE'  
2805100 2001-2006/PY  
L78 24 L66 NOT 2001-2006/PY

FILE 'HCAPLUS'  
6085153 2001-2006/PY  
L79 49 L67 NOT 2001-2006/PY

FILE 'NTIS'  
91351 2001-2006/PY  
L80 0 L68 NOT 2001-2006/PY

FILE 'ESBIOBASE'  
1701930 2001-2006/PY  
L81 15 L69 NOT 2001-2006/PY

FILE 'BIOTECHNO'  
368875 2001-2006/PY  
L82 25 L70 NOT 2001-2006/PY

FILE 'WPIDS'

5198425 2001-2006/PY  
L83 0 L71 NOT 2001-2006/PY

TOTAL FOR ALL FILES

L84 250 L72 NOT 2001-2006/PY

=> dup rem l84

PROCESSING COMPLETED FOR L84

L85 72 DUP REM L84 (178 DUPLICATES REMOVED)

=> d tot

L85 ANSWER 1 OF 72 MEDLINE on STN DUPLICATE 1  
TI The central cytoplasmic loop of the major facilitator superfamily of transport proteins governs efficient membrane insertion.  
SO Proceedings of the National Academy of Sciences of the United States of America, (2000 Aug 1) Vol. 97, No. 16, pp. 8938-43.  
Journal code: 7505876. ISSN: 0027-8424.  
AU Weinglass A B; Kaback H R  
AN 2000422576 MEDLINE

L85 ANSWER 2 OF 72 LIFESCI COPYRIGHT 2006 CSA on STN DUPLICATE 2  
TI The Sucrose Permease of Escherichia coli: Functional Significance of Cysteine Residues and Properties of a Cysteine-less Transporter  
SO Biochemistry (Washington) [Biochemistry (Wash.)], (20000500) vol. 39, no. 20, pp. 6164-6169.  
ISSN: 0006-2960.  
AU Sahin-Toth, M.; Frillingos, S.; Lawrence, M.C.; Kaback, H.R.  
AN 2001:39280 LIFESCI

L85 ANSWER 3 OF 72 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
TI Thiol cross-linking of cytoplasmic loops in the lactose permease of Escherichia coli.  
SO Biochemistry, (March 21, 2000) Vol. 39, No. 11, pp. 3134-3140. print.  
CODEN: BICHAW. ISSN: 0006-2960.  
AU Kwaw, Isidore; Sun, Jianzhong; Kaback, H. Ronald [Reprint author]  
AN 2000:202686 BIOSIS

L85 ANSWER 4 OF 72 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
TI Topography of the surface of the Escherichia coli phosphotransferase system protein enzyme IIAGlc that interacts with lactose permease.  
SO Biochemistry, (March 21, 2000) Vol. 39, No. 11, pp. 2931-2939. print.  
CODEN: BICHAW. ISSN: 0006-2960.  
AU Sondej, Melissa; Seok, Yeong-Jae; Badawi, Paul; Koo, Byoung-Mo; Nam, Tae-Wook; Peterkofsky, Alan [Reprint author]  
AN 2000:202673 BIOSIS

L85 ANSWER 5 OF 72 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN  
TI Expression and membrane targeting of E-coli lactose permease and beta-galactosidase in mammalian cells for drug delivery.  
SO FASEB JOURNAL, (11 MAY 2000) Vol. 14, No. 8, pp. A1324-A1324. MA 78.  
ISSN: 0892-6638.  
AU Howard-Till R A (Reprint); Naleway J J  
AN 2000:553444 SCISEARCH

L85 ANSWER 6 OF 72 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI Expression of the galactose mutarotase gene from Lactococcus lactis ssp. lactis ATCC7962 in Escherichia coli  
SO Journal of Microbiology and Biotechnology (2000), 10(6), 840-843  
CODEN: JOMBES; ISSN: 1017-7825  
AU Lee, Jong-Hoon; Choi, Jae Yeon; Lee, Jung Min; Kim, Jeong Hwan; Chang, Hae Choon; Chung, Dae Kyun; Lee, Hyong Joo  
AN 2001:70324 HCAPLUS

DN 134:294612

L85 ANSWER 7 OF 72 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on  
STN DUPLICATE

AN 2000088135 ES BIOBASE

TI Mutants of the lactose carrier of Escherichia coli which show altered  
sugar recognition plus a severe defect in sugar accumulation

AU Varela M.F.; Wilson T.H.; Rodon-Rivera V.; Shepherd S.; Dehne T.A.;  
Rector A.C.

CS M.F. Varela, Department of Biology, Eastern New Mexico University,  
Portales, NM 88130, United States.

SO Journal of Membrane Biology, (01 APR 2000), 174/3 (199-205), 43  
reference(s)

CODEN: JMBBBO ISSN: 0022-2631

DT Journal; Article

CY United States

LA English

SL English

L85 ANSWER 8 OF 72 MEDLINE on STN DUPLICATE 4

TI Immuno-capture differential display method (IDDM) for the detection of  
environmentally induced promoters in rhizobacteria.

SO Journal of microbiological methods, (2000 Jun) Vol. 41, No. 1, pp. 77-84.  
Journal code: 8306883. ISSN: 0167-7012.

AU Timms-Wilson T M; Ellis R J; Bailey M J

AN 2000403060 MEDLINE

L85 ANSWER 9 OF 72 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI Detection of the C5a receptor in Alzheimer and non-demented brain using  
novel rabbit monoclonal antibodies.

SO Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract  
No.-764.17. print.

Meeting Info.: 30th Annual Meeting of the Society of Neuroscience. New  
Orleans, LA, USA. November 04-09, 2000. Society for Neuroscience.  
ISSN: 0190-5295.

AU O'Barr, S. A. [Reprint author]; Morgan, E. L.; Cooper, N. R.

AN 2001:121232 BIOSIS

L85 ANSWER 10 OF 72 LIFESCI COPYRIGHT 2006 CSA on STN DUPLICATE 5

TI Construction of a Lactose-assimilating Strain of Baker's Yeast

SO Yeast, (19990930) vol. 15, no. 13, pp. 1299-1305.

ISSN: 0749-503X.

AU Adam, A.C.; Prieto, J.A.; Rubio-Teixeira, M.; Polaina, J.\*

AN 2000:6783 LIFESCI

L85 ANSWER 11 OF 72 MEDLINE on STN DUPLICATE 6

TI Continuous ethanol fermentation of lactose by a recombinant flocculating  
Saccharomyces cerevisiae strain.

SO Biotechnology and bioengineering, (1999 Sep 20) Vol. 64, No. 6, pp. 692-7.  
Journal code: 7502021. ISSN: 0006-3592.

AU Domingues L; Dantas M M; Lima N; Teixeira J A

AN 1999345924 MEDLINE

L85 ANSWER 12 OF 72 MEDLINE on STN DUPLICATE 7

TI Proximity relationships between helices I and XI or XII in the lactose  
permease of Escherichia coli determined by site-directed thiol  
cross-linking.

SO Journal of molecular biology, (1999 Aug 20) Vol. 291, No. 3, pp. 683-92.  
Journal code: 2985088R. ISSN: 0022-2836.

AU Wang Q; Kaback H R

AN 1999380412 MEDLINE

L85 ANSWER 13 OF 72 LIFESCI COPYRIGHT 2006 CSA on STN DUPLICATE 8

TI Construction of a flocculent Saccharomyces cerevisiae fermenting lactose

SO Applied Microbiology and Biotechnology [Appl. Microbiol. Biotechnol.],

(19990531) vol. 51, no. 5, pp. 621-626.  
ISSN: 0175-7598.

AU Domingues, L.; Teixeira, J.A.; Lima, N.\*  
AN 1999:79167 LIFESCI

L85 ANSWER 14 OF 72 MEDLINE on STN DUPLICATE 9  
TI Two-dimensional crystallization of Escherichia coli lactose permease.  
SO Journal of structural biology, (1999 Mar) Vol. 125, No. 1, pp. 63-75.  
Journal code: 9011206. ISSN: 1047-8477.  
AU Zhuang J; Prive G G; Werner G E; Ringler P; Kaback H R; Engel A  
AN 1999213952 MEDLINE

L85 ANSWER 15 OF 72 MEDLINE on STN DUPLICATE 10  
TI Tilting of helix I and ligand-induced changes in the lactose permease determined by site-directed chemical cross-linking in situ.  
SO Biochemistry, (1998 Nov 10) Vol. 37, No. 45, pp. 15785-90.  
Journal code: 0370623. ISSN: 0006-2960.  
AU Wu J; Hardy D; Kaback H R  
AN 1999060055 MEDLINE

L85 ANSWER 16 OF 72 MEDLINE on STN DUPLICATE 11  
TI Transmembrane helix tilting and ligand-induced conformational changes in the lactose permease determined by site-directed chemical crosslinking in situ.  
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L85 ANSWER 55 OF 72 HCAPLUS COPYRIGHT 2006 ACS on STN  
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L85 ANSWER 64 OF 72 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
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L85 ANSWER 72 OF 72 HCAPLUS COPYRIGHT 2006 ACS on STN  
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L85 ANSWER 17 OF 72 MEDLINE on STN DUPLICATE 12  
AB The role of the *Escherichia coli* lacY gene product (the lactose permease)  
in the induction of isopropyl-beta-D-thiogalactopyranoside (IPTG)  
inducible promoters was studied in *E. coli* and *P. fluorescens*. This was  
done by comparing strains containing a lacIPOZYA chromosomal insert with  
newly constructed strains containing inserts without the lacY gene  
(lacIPOZ). The lactose operon inserts were introduced as single-copy  
chromosomal inserts to eliminate differences in expression caused by  
differences in copy number. Comparison between the two types of inserts  
showed that the lactose permease was essential to allow growth on lactose  
by both bacteria and that the lactose permease plays an important role in  
transporting the inducer IPTG across the membrane of *P. fluorescens*. The  
use of a functional lactose permease allows  
expression of beta-galactosidase to increase more than fivefold  
from a wild-type lac promoter in *P. fluorescens* SS1001. We suggest that  
an increase in the rate of protein synthesis from lac-type promoters could  
be enhanced if an active lactose permease is present as well.

L85 ANSWER 27 OF 72 MEDLINE on STN DUPLICATE 19  
AB The lactose permease of *Escherichia coli* is a membrane transport protein  
containing 12 transmembrane hydrophobic domains connected by hydrophilic  
loops. Coexpression of lacY gene fragments encoding contiguous  
polypeptides corresponding to the first and second halves of the permease  
[Bibi, E., & Kaback, H. R. (1990) Proc. Natl. Acad. Sci. U.S.A. 87,  
4325-4329] or the first two transmembrane domains and the remainder of the  
molecule [Wrubel, W., Stochaj, U., Sonnewald, U., Theres, C., & Ehring, R.  
(1990) J. Bacteriol. 172, 5374-5381] leads to active lactose transport.  
It is shown here that contiguous permease fragments with discontinuities  
in loop 1 (periplasmic), loop 6 (cytoplasmic), or loop 7 (periplasmic)  
exhibit transport activity; however, fragments with discontinuities in  
transmembrane domains III or VII fail to do so. The results are  
consistent with the interpretation that contiguous permease fragments with  
discontinuities in hydrophilic loops form functional duplexes, while  
fragments with discontinuities in transmembrane alpha-helical domains do  
not. On the basis of this notion, a series of contiguous, nonoverlapping  
permease fragments with discontinuities at various positions in loop 6,  
putative helix VII, and loop 7 were coexpressed to approximate the  
boundaries of putative transmembrane domain VII. Contiguous fragments  
with a discontinuity between Leu222 and Trp223 or between Gly254 and

Glu255 are functional, but fragments with a discontinuity between Cys234 and Thr235, between Gln241 and Gln242, or between Phe247 and Thr248 are inactive. Therefore, it is likely that Leu222 and Gly254 are located in hydrophilic loops 6 and 7, respectively, while Cys234, Gln241, and Phe247 are probably located within transmembrane domain VII. (ABSTRACT TRUNCATED AT 250 WORDS)

L85 ANSWER 28 OF 72 HCAPLUS COPYRIGHT 2006 ACS on STN

AB An engineered fusion protein containing two tandem lactose permease mols. (permease dimer) exhibits high transport activity and is used to test the phenomenon of neg. dominance. Introduction of the mutation Glu-325 → Cys into either the first or the second half of the dimer results in a 50% decrease in activity, whereas introduction of the mutation into both halves of the dimer abolishes transport. Lactose transport by permease dimer is completely inactivated by N-ethylmaleimide; however, 40-45% activity is retained after N-ethylmaleimide treatment when either the first or the second half of the dimer is replaced with a mutant devoid of cysteine residues. The observations demonstrate that both halves of the fusion protein are equally active and suggest that each half may function independently. To test the possibility that oligomerization between dimers might account for the findings, a permease dimer was constructed that contains two different deletion mutants that complement functionally when expressed as untethered mols. Because this construct does not catalyze lactose transport to any extent whatsoever, it is unlikely that the two halves of the dimer interact or that there is an oligomeric interaction between dimers. The approach is consistent with the contention that the functional unit of lactose permease is a monomer.

L85 ANSWER 35 OF 72 HCAPLUS COPYRIGHT 2006 ACS on STN

AB A review with 58 refs., discussing the structure, the membrane insertion and stability, and the oligomeric state of lactose permease, expression of the lacY gene, functional complementation of deletion mutants, and site-directed mutagenesis.

L85 ANSWER 42 OF 72 MEDLINE on STN

DUPLICATE 29

AB The lacY gene of Escherichia coli was cut into two approximately equal-size fragments with Afl II and subcloned individually or together under separate lac operator/promoters in plasmid pT7-5. Under these conditions, lac permease is expressed in two portions: (i) the N-terminal portion (the N terminus, the first six putative transmembrane helices, and most of putative loop 7) and (ii) the C-terminal portion (the last six putative transmembrane helices and the C terminus). Cells harboring pT7-5 encoding both fragments transport lactose at about 30% the rate of cells expressing intact permease to a comparable steady-state level of accumulation. In contrast, cells expressing either half of the permease independently do not transport lactose. As judged by [35S]methionine labeling and immunoblotting, intact permease is completely absent from the membrane of cells expressing lacY fragments either individually or together. Thus, transport activity must result from an association between independently synthesized pieces of lac permease. When the gene fragments are expressed individually, the N-terminal portion of the permease is observed inconsistently, and the C-terminal portion is not observed. When the gene fragments are expressed together, polypeptides identified as the N- and C-terminal moieties of the permease are found in the membrane. It is concluded that the N- or C-terminal halves of lac permease are proteolyzed when synthesized independently and that association between the two complementing polypeptides leads to a more stable, catalytically active complex.

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L85 ANSWER 65 OF 72 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

AB In vivo synthesis of Escherichia coli lactose-permease has been achieved

in minicells produced by the strain DR103 harboring the lacY-carrying plasmid, pGM21. The newly synthesized carrier was bound to the membrane. Addition of inducer (isopropyl 1-thio-beta-D-galactopyranoside) and/or cAMP increased the amount of the carrier synthesized. After 2 hr, a drastic decrease in both active transport activity and colony-forming capacity was observed. Amplification of lacY gene expression leads to enrichment of mutants with defective permease activity. Mild selective pressure growth of pTE18-containing cells in rich medium leads to selection of lacY plasmid mutants. Drastic selective pressure addition of isopropyl 1-thio-beta-D-galactopyranoside and/or cAMP to cells harboring pGM21 and grown in minimal glucose medium, leads to selection of chromosomal mutation affecting the Lac phenotype. The chromosomal mutation(s) affect either the normal insertion and/or the function of the lac carrier. (47 ref)

- L85 ANSWER 66 OF 72 MEDLINE on STN DUPLICATE 42  
 AB The evolution of new metabolic functions is being studied in the laboratory using the EBG system of E. coli as a model system. It is demonstrated that the evolution of lactose utilization by lacZ deletion strains requires a series of structural and regulatory gene mutations. Two structural gene mutations act to increase the activity of ebg enzyme toward lactose, and to permit ebg enzyme to convert lactose into allolactose, and inducer of the lac operon. A regulatory mutation increases the sensitivity of the ebg repressor of lactose, and permits sufficient ebg enzyme activity for growth. The resulting fully evolved ebg operon regulates its own expression, and also regulates the synthesis of the lactose permease.
- L85 ANSWER 69 OF 72 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AB The previously described hybrid plasmid pC7 which carries lac+O+ Δ(Z)Y+A+ on a 12.3 + 106-mol. weight DNA fragment (Feather, R. M., et al., 1978) was partially digested with the restriction endonuclease EcoR 1 under conditions reducing the recognition sequence to ↓d(A-A-T-T) and ligated to the vector pBR322 gene lacY-carrying inserts of various sizes (mol. weight 1.5-4.7 + 106) were obtained. Hybrid plasmid pTE18 (2300-base-pair insert) carries part of the I (repressor) gene, the promoter-operator region, part of the Z (β-galactosidase) gene, the Y (lactose carrier) gene and part of the A (transacetylase) gene. Upon induction of pTE18-harboring strains the Y-gene product is expressed at a nearly constant rate for several generations and accumulates to a level of 12-16% of the total cytoplasmic membrane protein. Integration into the membrane leads to active carrier as judged by binding and transport measurements.

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TI Mutant membrane protein toxicity.  
SO Journal of Biological Chemistry, (Oct. 23, 1998) Vol. 273, No. 43, pp.  
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CODEN: JBCHA3. ISSN: 0021-9258.  
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AN 1998:505720 BIOSIS

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